

ABSTRACT

An automatic transmission control system for an
automobile, comprising a vehicle weight estimation unit ~~(106)~~
in Fig. 17 which estimates a vehicle weight of the
automobile, a torque estimation unit ~~(107, 1001)~~ which
estimates an output torque, an acceleration input unit ~~(102)~~
which accepts an acceleration signal; a load estimation unit
(110) which estimates a running load from the estimated
vehicle weight, the estimated output torque and the accepted
acceleration; a memory which stores a plurality of shift
schedules therein; and a gear position determination unit
(109) which includes the memory, and which selects one of
the shift schedules in accordance with the vehicle weight
and the estimated running load, so as to determine a gear
position of an automatic transmission of the automobile in
conformity with the selected shift schedule. An exact shift
operation conformed to the vehicle weight and the running
load can be performed, and an enhanced fuel consumption can
be attained.